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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,290	01/27/2004	David Q. Dobras	0059-014P1 9338	
40972 HENNEMAN	7590 03/08/2007 & ASSOCIATES, PLC		EXAMINER	
714 W. MICHIGAN AVENUE			PENDLETON, DIONNE	
THREE RIVE	RS, MI 49093	⁹³		PAPER NUMBER
		•	2615	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	03/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/766,290	DOBRAS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dionne H. Pendleton	2615				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tirr ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27 Ja	nuary 2004.					
	action is non-final.	,				
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closed in accordance with the practice under E						
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application.						
4a) Of the above claim(s) is/are withdray	n from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-24</u> is/are rejected.	•					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	<i>r</i> .					
10)⊠ The drawing(s) filed on <u>1/27/2004</u> is/are: a)⊠ a	accepted or b)□ objected to by t	he Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:		e-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	• •					
3. Copies of the certified copies of the prior	•	ed in this National Stage				
application from the International Bureau * See the attached detailed Office action for a list		d				
,	or the certified copies not receive					
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	ατοίτε προμισατίσει				
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Application/Control Number: 10/766,290

Art Unit: 2615

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claim 24 is rejected under 35 U.S.C. 102(b) as being anticipated by Boyden
 (US 5,737,436).

Regarding claim 24, in **figure 1**, Boyden teaches a communications earpiece improvement comprising: a connection tube **(14)** for connecting and acoustically coupling a transducer enclosure **(10)** to an ear bud **(20)**; and

In Figure 2, an elongated projection (30) for insertion into the connecting tube (14);

Since Boyden teaches that the projection (30) is slid into tube (14), and neglects to teach an mechanism for limiting the rotational movement of projection (30) within tube (14), figure 2 is interpreted as teaching that the connecting tube (14) can be rotated about the elongated projection, via rotational force applied by the wearer; and

Further wherein **Figure 2** illustrates that the end of the connecting tube **(18)** can be moved along the length of the elongated projection **(30)**, note that **figure 2** illustrates that the connecting tube **(14,18)** is disposed at the mid-length portion of projection **(30)**.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taenzer (US 6,009,183) in view of Boyden (US 5,737,436).

Regarding claim 1, TAENZER teaches a communication earpiece comprising:

A transducer enclosure portion (22) having a transducer housed therein (see column 3, lines 5-7); in column 4, lines 27-30, Taenzer teaches a sound horn (16); and a generally tubular connection member (14) for channeling sound from the transducer enclosure portion to the sound horn (16); wherein column 3, lines 28-32 teaches a connection member (16) having a first adjustment means (30) for allowing rotation of the connection member relative to the transducer enclosure portion.

TAENZER does not clearly teach a second adjustment means allowing movement of the sound horn selectively toward or away from the transducer enclosure portion.

BOYDEN teaches, in **figure 2**, a second adjustment means **(18,30)** for connecting a sound horn **(20)** to a connection member **(18)**, wherein the second adjustment means **(18,30)** allows movement of the sound horn (via smooth inner and outer surfaces of articles **18 and 30**, respectively) selectively toward and/or away from the transducer enclosure via sliding motion, see **figure 2** which illustrates that the

Application/Control Number: 10/766,290

Art Unit: 2615

connecting tube (14,18) is disposed at the mid-length portion of projection (30). It would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of Taenzer and Boyden, substituting the sound horn/sound tube connection (18,30) structure taught by figure 2 of Boyden, for that of Taenzer, which would provide a releasable connection thus permitting the exchange of eartips so as to enable a more comfortable fit for the user, if so desired.

Regarding claim 2, Taenzer teaches a first adjustment means including a generally hollow projection (32) on the transducer enclosure and a hollow cylindrical end portion (30) on the connection member (14).

Regarding claims 3 and 4, in **figure 2**, Taenzer teaches that the cylindrical end portion **(30)** is rotatably affixed to the cylindrical projection **(32)**.

Regarding claim 5, in **figure 2**, Boyden teaches a second adjustment means including a hollow projection **(30)** on the sound horn **(20)** and a hollow cylindrical end portion **(18)** on the connection member **(14)**.

Regarding claims 6 and 7, in **figure 2**, Boyden teaches that the cylindrical end portion **(18)** is slidably affixed to the cylindrical projection **(30)** permitting the longitudinal movement of the cylindrical end portion **(18)** along at least a portion of the length of the cylindrical projection **(30)**.

Regarding claims 8 and 9, Taenzer teaches a cylindrical end portion (30) rotatably affixed to the cylindrical projection (32), see column 5, lines 1-2.

Regarding claim 10, **figure 2** of Boyden teaches a third adjustment means (articles **18** and **30** having smooth inner and outer surfaces, respectively; additionally

Art Unit: 2615

rotational adjustment is achieved via rotational force externally applied by the user) for allowing the rotation of the sound horn in relation to the connection member. Note, that Boyden teaches that the projection (30) is slid into tube (14), and neglects to teach an mechanism for limiting the rotational movement of projection (30) within tube (14), figure 2 is interpreted as teaching that the connecting tube (14) can be rotated about the elongated projection, via rotational force applied by the wearer.

Regarding claim 11, Boyden teaches a second adjustment means (18,30) and third adjustment means (articles 18 and 30 having smooth inner and outer surfaces, respectively; also see rotational force) which are a single connection; wherein the connection includes a hollow cylindrical projection (30) on the sound horn (20) and a hollow cylindrical end portion (18) on the connection member (14).

Regarding claims 12 and 13, Boyden teaches a cylindrical end portion (18) slidably affixed to a cylindrical projection (30) such that the end portion (18) can be moved longitudinally along a portion of the length of the cylindrical projection.

Regarding claims 14 and 15, Boyden teaches a cylindrical end portion (18) rotatably affixed to the cylindrical projection (30).

Regarding claim 16, Taenzer teaches a connection member (14) being bent (48) such that the connection member can rotate in relation to the transducer enclosure; while in **figure 2**, Boyden teaches that the sound horn (20) can rotate in relation to the connection member (14) about a second axis via applied rotational force.

Regarding claim 17, both Taenzer and Boyden teach that the transducer enclosure portion is adapted for hooking over the top of the user's ear.

Art Unit: 2615

Regarding claims 18 and 22, Taenzer teaches a transducer enclosure portion (22) and transducer housed within said transducer portion; a sound horn (16); a connection member (14); a first generally hollow projection (32) on the transducer enclosure; and a connection member (14) rotatably affixed to the first generally hollow projection (32); while Boyden teaches a sound horn (20) having a second generally hollow projection (30); and a connection member (14) rotatably affixed at the other end (18) to the second generally hollow projection (30). It would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of Taenzer and Boyden, substituting the sound horn/sound tube connection (18,30) structure taught by figure 2 of Boyden, for that of Taenzer, which would provide a releasable connection thus permitting the exchange of eartips so as to enable a more comfortable fit for the user, if so desired.

Regarding claim 19, Taenzer teaches that one end (30) of the connection member (14) fits over the first generally hollow projection (32); while Boyden teaches that the other end of the connection member (18) fits over the second generally hollow projection (30).

Regarding claim 20, Taenzer teaches a connection member (14) being bent (48) such that the connection member can rotate in relation to the transducer enclosure; while in **figure 2**, Boyden teaches that the sound horn (20) can rotate in relation to the connection member (14) about a second axis via applied rotational force.

Regarding claim 21, Boyden teaches that the second generally hollow projection (30) is elongated such that the connection member (18) can be moved along at least a portion of its' length.

Regarding claim 23, Taenzer teaches a transducer enclosure (22) including a transducer housed within; and a sound horn (16); while the combined teachings of Taenzer and Boyden anticipate a mechanical arrangement wherein the sound horn is adjustable in all three physical dimensions.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

SCHLAEGEL (US 5,975,235) teaches BTE structure.

STEVENS (US 4,864,610) teaches headset earpiece.

FRETZ (US 7,027,608) teaches a BTE structure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dionne H. Pendleton whose telephone number is 571-272-7497. The examiner can normally be reached on 9-5:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on 571-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/766,290

Art Unit: 2615

Page 8

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Dionne Pendleton

Brun Eng EXAMINER MARCH 5, 2007